



# **Port Development and Growth Trends** In the ASEAN region

13<sup>th</sup> ASEAN Ports and Shipping, Indonesia

June 2015

maritime & transport business solutions

# Agenda





#### MTBS is a leader in port business advisory services ....



- MTBS is a leading international finance and strategy advisory firm in the maritime & transport sector
- Based in Rotterdam
- Independent
- MTBS specializes in ports and terminals
- The firm's value proposition: "4P: innovative solutions for Port Public Private Partnerships"

#### Strategy

Value & Business Strategy Port Sector Reform Port Policy Public Private Partnerships Institutional & Regulatory Change Organizational Reform & Alignment

> Financial Structuring Project Finance Due Diligence Procurement of Finance Investment / Divestment Merger & Acquisition



#### Valuation

Value Creation & Protection Financial Modeling and Analysis Feasibility Project Structuring & Packaging Business Case Risk Valuation, Allocation, Mitigation

Transaction Strategy Transaction Management Documentation & Contracts Tendering & negotiated Solutions Financial Solutions Legal Solutions

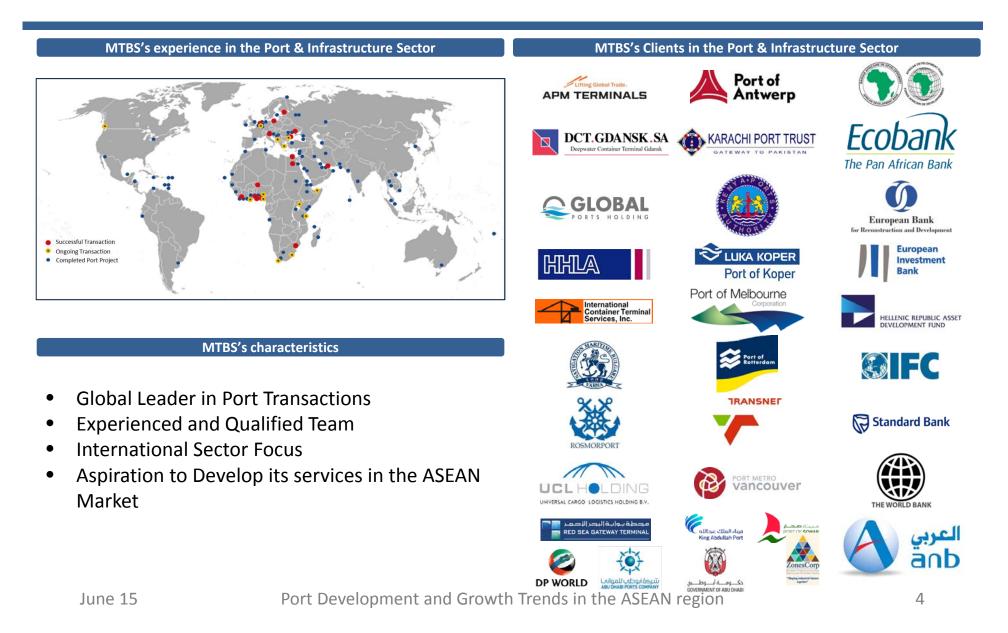
Financing

Transaction

June 15

## MTBS is a global leader in port transaction advisory services





# **Relevant International Experience**

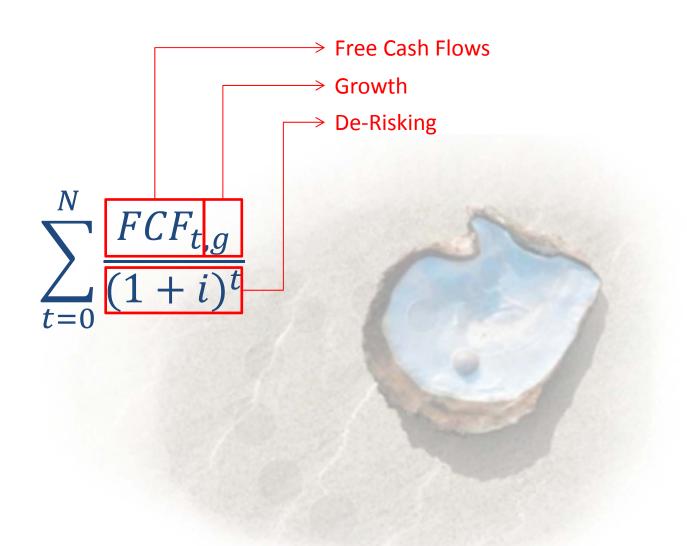








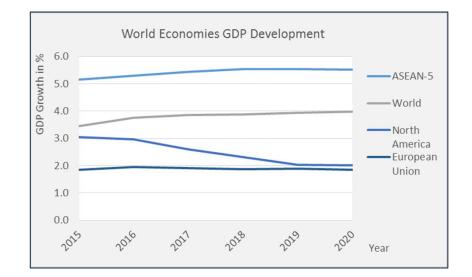
Unlocking Value in the ASEAN Maritime & Transport Industry



## ASEAN region: Healthy growth prospects



- High GDP growth up to 2020 (IMF):
  - ASEAN 5: 5.5%
  - European Union: 1.9%
  - North America: 2.0%
  - World: 4.0%
- Total Container throughput in Southeast Asia:
  - 2000: 34.5 million TEU
  - 2013: 89.3 million TEU
  - Container CAGR (2000-2013): 7.6%
- Population Growth ASEAN countries:
  - 1,28% per year on the long term



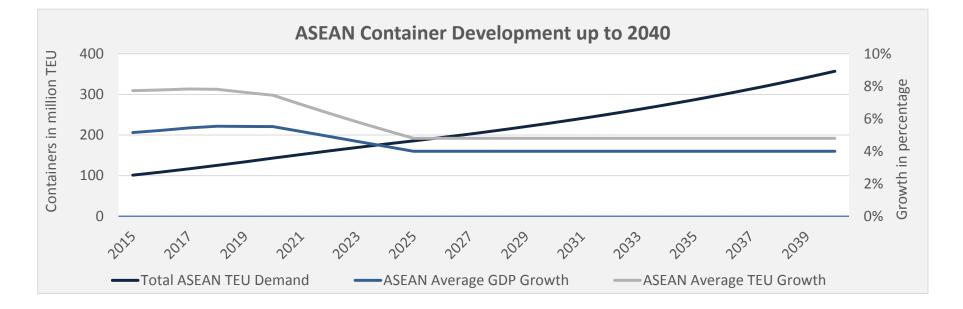
Economy	2007-2013 CAGRs in percentage	TEU / Population ratio
ASEAN - 5	6.90%	0.10
European Union	2.15%	0.20
North America	0.13%	0.14
World	4.86%	0.09

#### Growth: Container Demand (estimation)

Substantial demand increase expected for ASEAN region

#### Growth Assumptions:

- GDP Growth:
  - Up to 2020 IMF forecast (individual countries)
  - After 2020 decreasing to a stable 4%
- GDP TEU multiplier:
  - Varies from 0.8 to 2.4  $\rightarrow$  develop to a stable 1.2

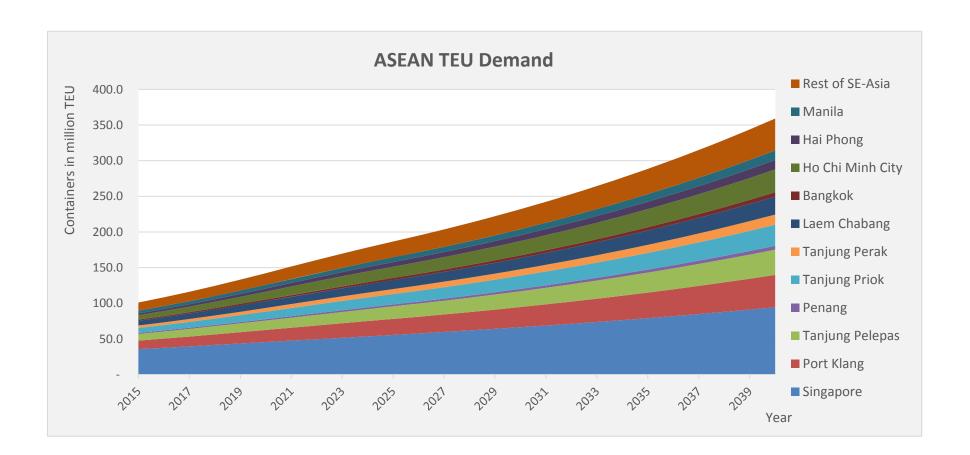




#### Growth: Container Demand (estimation)



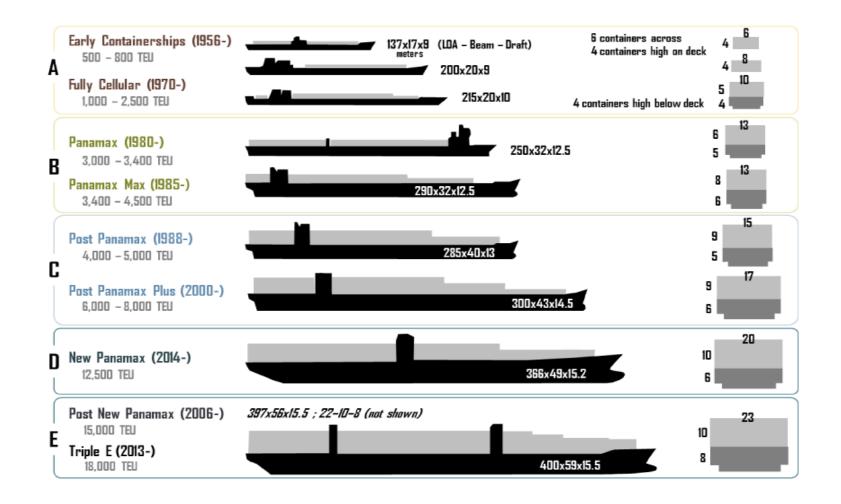
#### ASEAN TEU Demand per Port



## Growth: Vessel Dimensions (example: containers)



Existing Ports Unable to accommodate modern trades: Greenfields



#### **Growth: Port Expansions**

Substantial investments in port assets scheduled in coming decades



#### Work on Tuas mega port starting soon

## Teluk Lamong's international terminal to operate next month

HPH to begin expansion at Laem Chabang Terminal D within a year

# Feasibility study on 3rd terminal at Port Klang to be completed in 2015

Penang sees 'huge' growth potential

Port expansion at Pasir Panjang being accelerated

03 Apr 2015

**ICTSI** expanding main Manila port

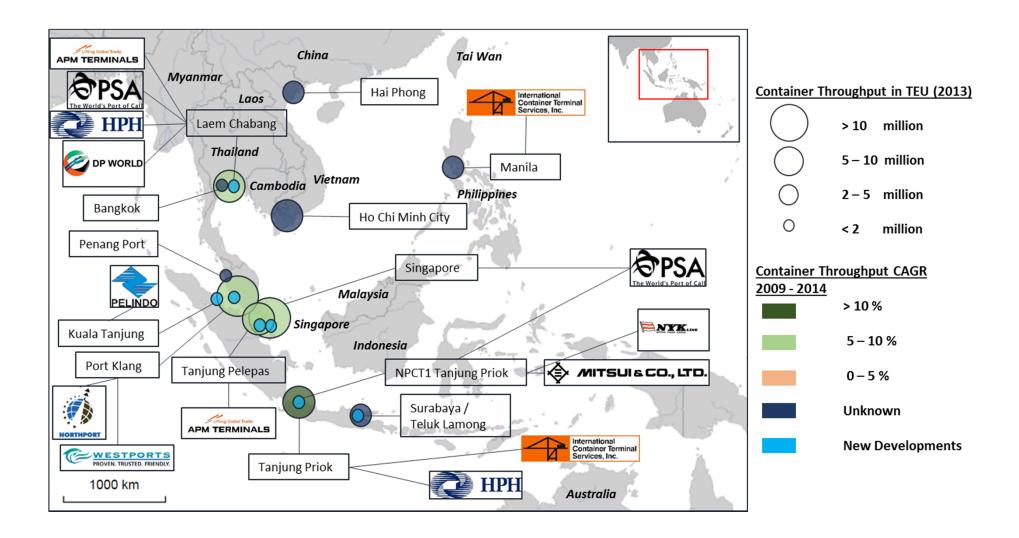
Vietnam launches new bid to bring more private investment into its 19 seaports

Large port extensions at Tanjung Priok Port, Jakarta, Indonesia

#### **ASEAN Ports & Developments**



#### Port Developments



### ASEAN Current Ports & New Port Developments



#### Current Infrastructure

#### Planned Infrastructure

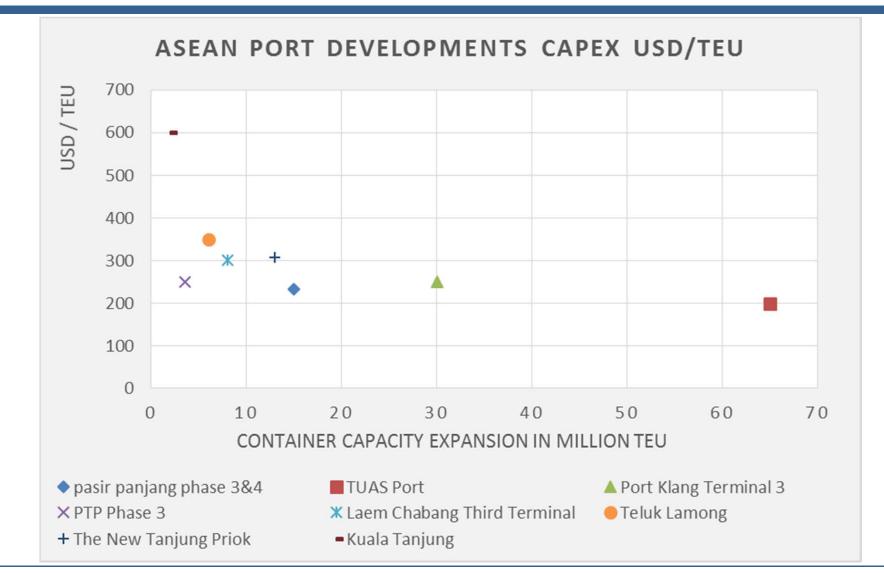
Port Count	Country		put in M TEU Capacit		ity in	Country	Planned Capacity	Planned
	Country	2013	2014	M TEU	M TEU New Terminals		Country	in M TEU
Singapore	Singapore	32,6	33,9	35,0	Pasir Panjang phase 3 & 4	Singapore	15,0	2017
Port Klang	Malaysia	10,4	10,9	19,6		Circum	* < 5 0	2020
Tanjung Pelepas	Malaysia	7,6	8,6	10,0	TUAS Port	Singapore	*65,0	2030
Penang Port	Malaysia	1,2	1,3	2,0	Port Klang Terminal 3	Malaysia	*30,0	2030
Laem Chabang	Thailand	6,0	6,6	10,8	PTP Phase 3 Expansion	Malaysia	3,5	2019
Bangkok	Thailand	1,5	1,6	1,3		ivialaysid	5,5	2019
Ho Chi Minh City	Vietnam	4,3	5,4	*15,0	Laem Chabang thrid basin	Thailand	*8,0	2020
Hai Phong	Vietnam	2,0	*2,2	2,5	Teluk Lamong	Indonesia	1,6 (5,5)	2015 (2019)
Manila	Philippines	3,8	3,7	2,5	The New Testing - Drieb	la de secie	4 5 (42.0)	2015 (2022)
Tanjung Perak (Surabaya)	Indonesia	3,0	3,2	*3,5	The New Tanjung Priok	Indonesia	1,5 (13,0)	2015 (2023)
Tanjung Priok	Indonesia	6,5	6,6	6,6	Kuala Tanjung	Indonesia	2,0	2019

\* Estimated

\* Phased Expansions

ASEAN Current Ports & New Port Developments

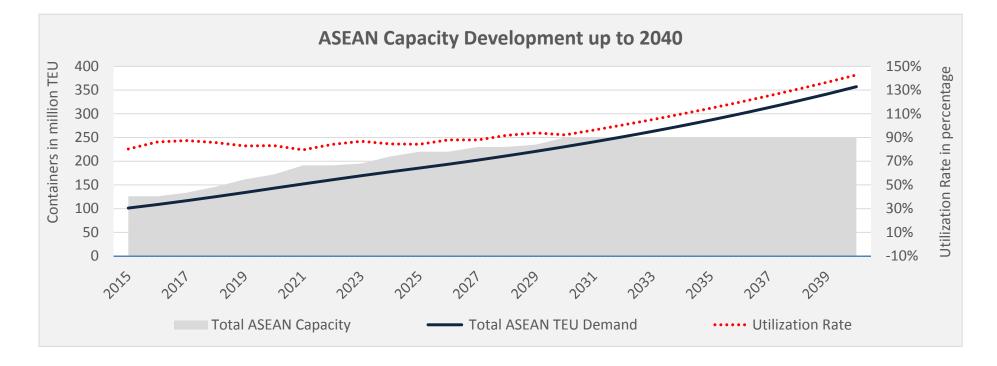




#### ASEAN Port Market Outlook

Healthy growth and sufficient capacity

- Container demand increasing from 101 M TEU (2015) to 357 M TEU (2040)
- Existing capacity approximately 125 M TEU
- Port expansions: phased over time
- Need for 4P solutions



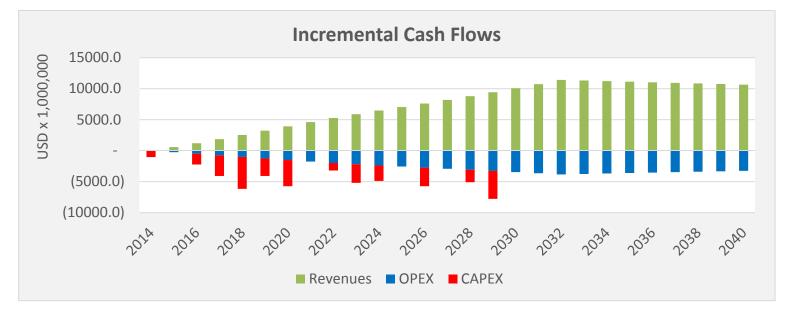


#### **Cash Flows**



Established on rationalized per-TEU figures for capex, opex and revenues

- CAPEX: Based on published project CAPEXes; or estimated between USD 200-600 / TEU capacity, depending on project: USD 35 billion until 2030
- OPEX: USD 35-55 / TEU handled; decreasing by 2% per annum
- Revenues: Handling Charges & port dues
  - Handling charge: USD 75-95 / TEU handled; decreasing by 1% per annum
  - Port dues : USD 10 / TEU handled



#### Value Summary



Unlocking Value in the ASEAN Maritime & Transport Industry

- Substantial growth expected in the ASEAN region for the coming decades: doubling in next 10 years.
- Capacity expansions: 2015-2030; CAPEX USD 35 billion; 127 million TEU pa
- 15-20 Billion USD pa Revenue business

Port Authorities need to develop carefully designed and executed PPP Concessions with Private Operators through Transparent and IBP Tenders

$$NPV(i,N) = \sum_{t=0}^{N} \frac{FCF_{t,g}}{(1+i)^t} = USD \ 18.3b$$

NPV@WACC 10%: USD 18.3b NPV@WACC 15%: USD 4.7b IRR 20.0%

## ASEAN Market & Port Developments





### Importance of PPP & Transaction Advisory



De-risking strategies drive down cash flow volatility & cost of capital

- PPP Structuring: balancing risks and business case driven
  - Procurement/Project realisation risks
  - Project risk: commercial, financial, operational, political etc
  - Financial/commercial risks
- PPP Procurement Processes
  - Professional and realistic transactions: timeframes, consultations, documentation, evaluation.
  - Business case driven
  - Process embedded in legislation
  - Non-contestable outcomes
- PPP Contract: Valuable & Enforceable & Bankable
  - Tenor
  - Step-in
  - Clear termination compensation regime and guarantees
  - Freedom to set tariffs
  - Handback conditions

#### **De-Risking: Structure**



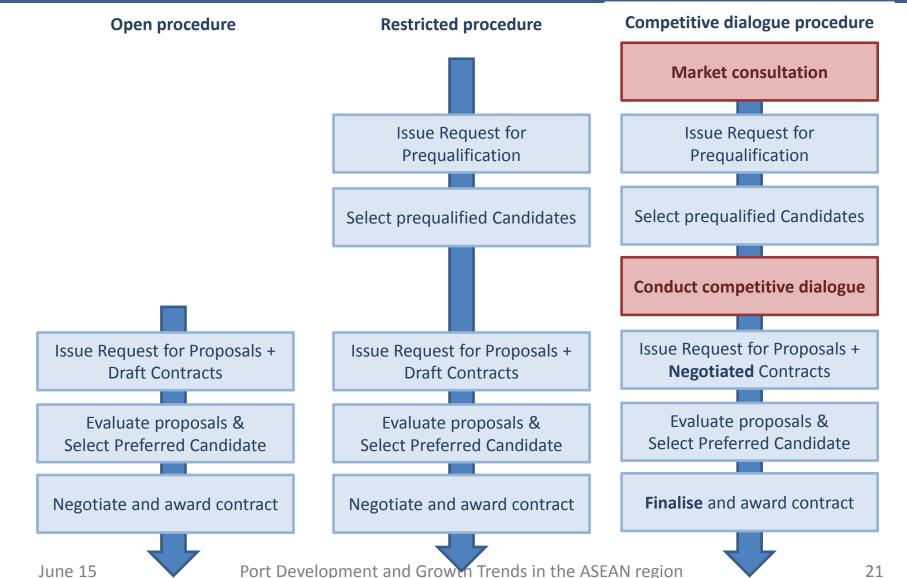


Structure	Characteristics	Examples
1. Landlord PA Operator Infra	<ul> <li>PA acts as traditional landlord</li> <li>Substantial investments and financing is required, but only for base infrastructure</li> </ul>	<ul> <li>Rotterdam, Antwerp, Hamburg</li> <li>Best practice port reform in African ports</li> </ul>
2. Landlord with DB(F)M PA Operator DB(F)M infra	<ul> <li>PA acts as traditional landlord</li> <li>Construction contract is tendered out as a DB(F)M, which implies that construction and maintenance (and financing) is the full responsibility of the infrastructure contractors</li> </ul>	<ul> <li>No DBFM contract in ports up to date: currently under implementation in a North American port</li> <li>For Rotterdam MV2 it was concluded to apply DBM</li> </ul>
3. PDMC Investor(s) PA PDMC Opera- tor	<ul> <li>PA enters into Master Concession with PDMC (PA as co-shareholder)</li> <li>PDMC tenders individual terminal concessions and the construction contract</li> <li>PDMC attracts investors and arranges debt financing for investments (based on securities from anchor clients</li> </ul>	<ul> <li>Busan, S-Korea – Hyundai, Bouygues, BusanPA, Macquarie, Kukje, KCTC</li> <li>Maputo, Mozambique – CFM, DP World, Grindrod</li> <li>Durban, South-Africa</li> <li>Ibom Deep-Sea Port, Nigeria</li> </ul>
4. Full BOT concession tender Private port consortium	<ul> <li>Private consortium is responsible for port development and investments</li> <li>Appetite restricted by size of the investments</li> <li>Limited control PA</li> </ul>	<ul> <li>Monrovia, Liberia – APMT</li> <li>Mersin, Turkey – PSA &amp; Afken</li> </ul>

#### **De-risking: Awarding Procedures**









- Competitive Dialogue Procedure creates most value: Early market involvement of bidders
- Tender should be business case driven. Focus on long term value rather than closing the deal.
- Feasible Business Case for both PA and TO translated into valuable concession contract
- Concession contract: valuable, enforceable and bankable
- Transaction Preparation Phase is Crucial:
  - Transaction Structuring: Valuation, Risk Allocations and Value Engineering, Documentation
  - Transaction Management: First Time Right and Commit to Timelines



## thank you for your attention

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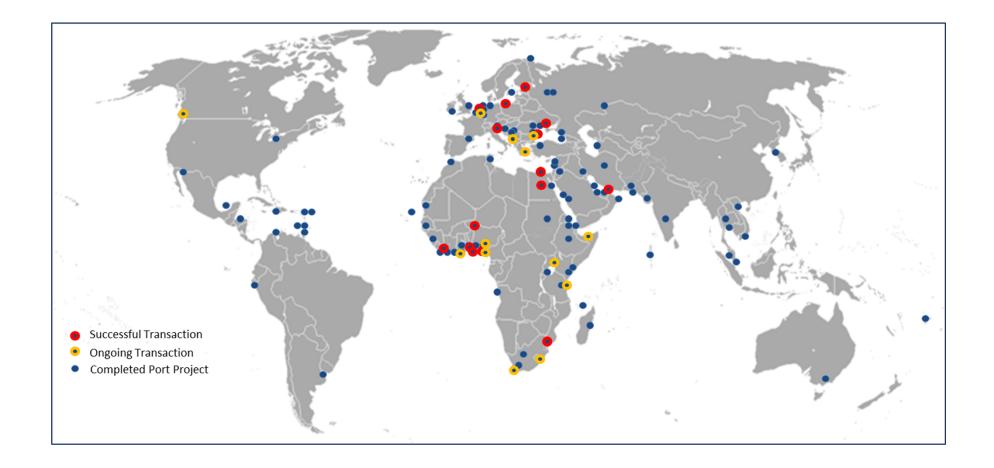
## ASEAN Market & Port Developments







## ... with a global track record of port projects...



## ... with significant recent Port Transaction Success Stories ...

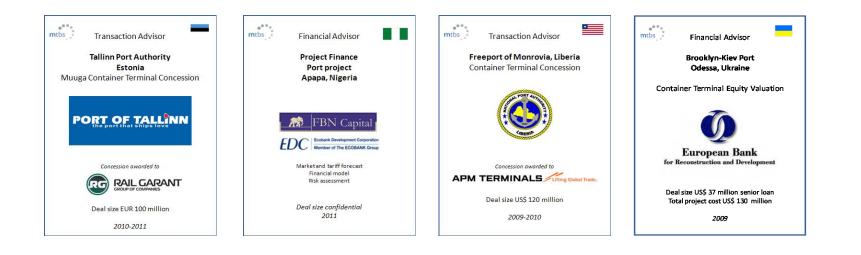






## ... with significant recent Port Transaction Success Stories ...







## ... a portfolio of ongoing port transactions ...

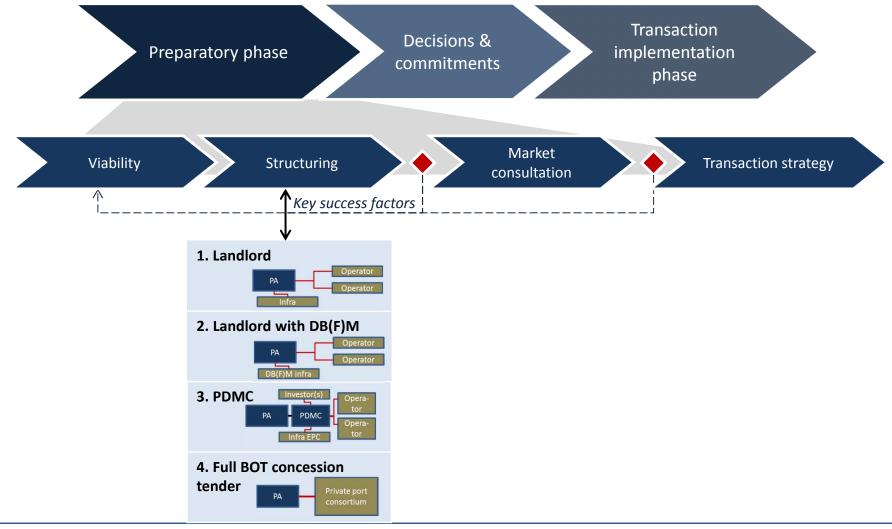


Port of Vancouver, Canada	Port of Durban, South Africa	Port of Dar es Salaam, Tanzania	Port of Moerdijk, Netherlands
Financial Advisor	Transaction Advisor	Transaction Advisor	Transaction Advisor
Commercial advisory services	PPP-scheme Durban Dig-out port	Concessioning Berth 5-7 and 13&14	Concessioning terminal
Concession	Concession	Concession	Concession
Sell Side	Sell Side	Sell Side	Sell Side

Ibom Deep Sea Port, Nigeria	Takoradi, Ghana	Kisumu, Kenya	Port of Burgas, Bulgaria	
Transaction Advisor	Transaction Advisor	Transaction Advisor	Transaction Advisor	
Concession greenfield Deep Sea Port	Concessioning Takoradi Port PPPs	Concessioning port of Kisumu PPP Project	Equity transaction Navibulgar container terminal	
Concession	Concessions	Concession	Management Contract Shareholders Agreement	
Sell Side	Sell Side	Sell Side	Private deal	

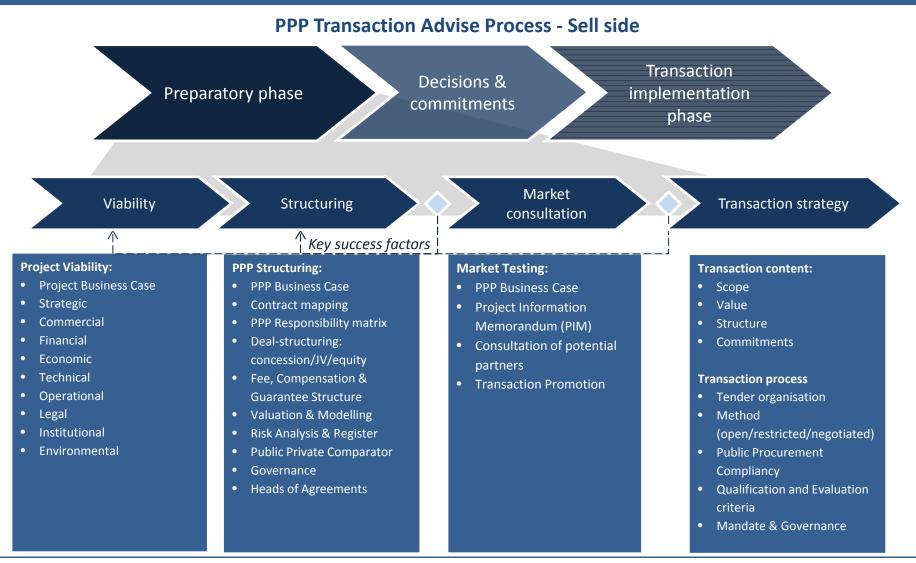


# Tailoring of the optimal PPP structure is an important step in transaction preparation

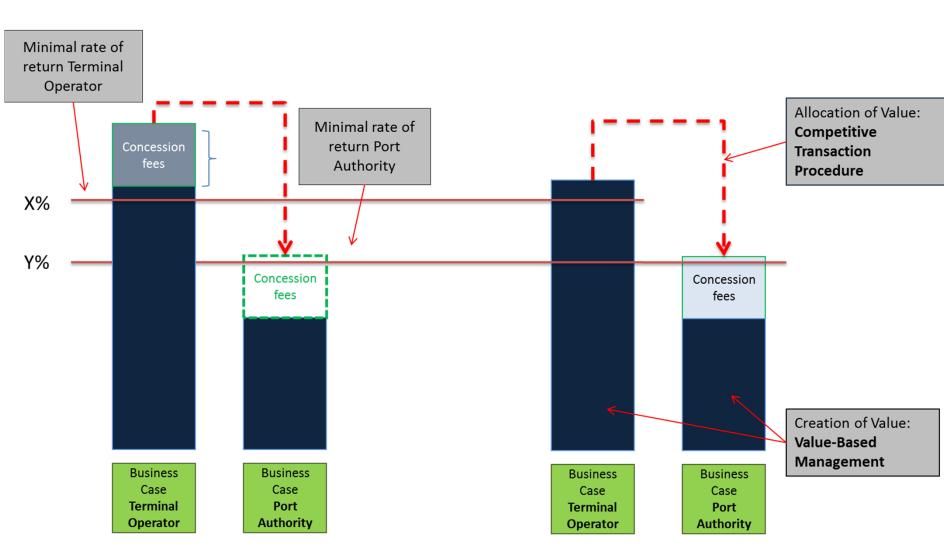


# Business Case Approach secures project feasibility, PPP Structure and Bankability





Risk allocation and competitive tendering lead to optimal value creation

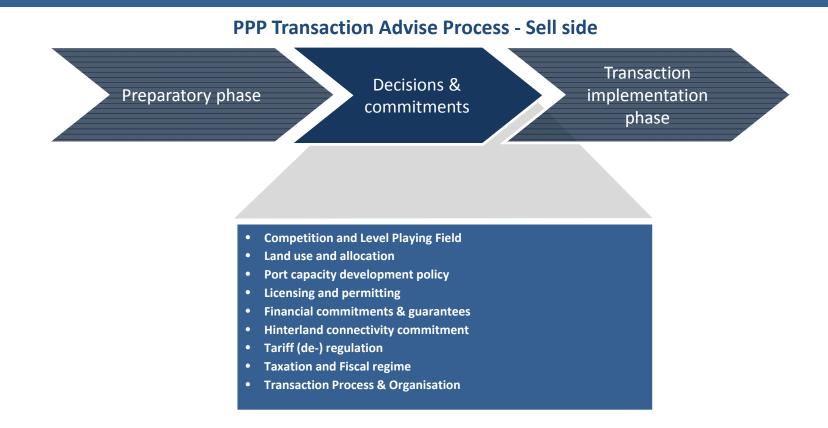




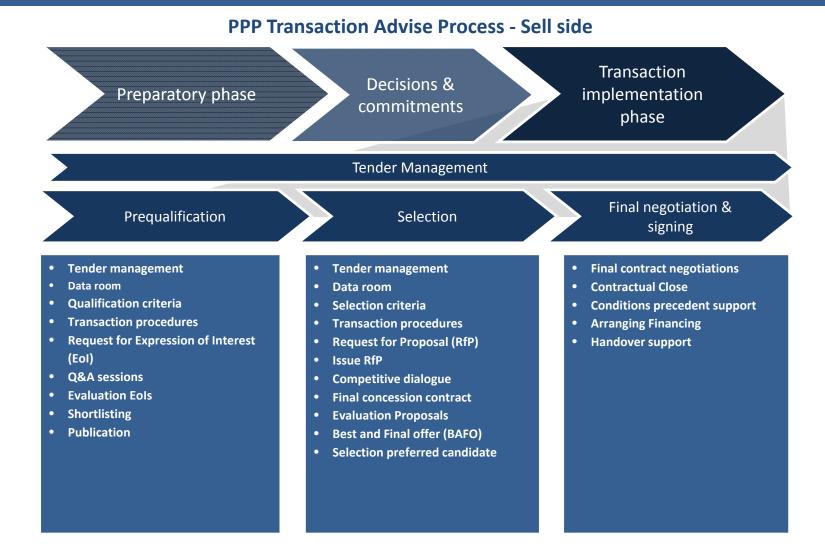
Port Development and Growth Trends in the ASEAN region













# **PPP Transaction Advise Process**

#### Buy side





#### **PPP Transaction Advise Process - Buy side** Project Bid Due Structuring Negotiations Bid Diligence Preparation & Valuation **Final Business Plan** Assist with: **Commercial Due Diligence** Detailed market study • • Bid Optimization & Final **Final contract negotiations** • Revenue & Tariff Financial Due Diligence valuation Arranging financing projections • Technical/operational Due • Price offer (conservative or **Conditions precedent** • Technical/Operational • Diligence maximized) • Legal/Institutional Due period planning Commitments & Diligence • Fiscal review • Legal/Institutional guarantees • Preparation of Bid transaction objectives Documentation • Financial Modelling **Risk analysis** ٠ • Partnering Strategy Stakeholder Strategy • Indicative price offer

#### Bid Management



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